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- Gas heat pump device for driving compressor - has compressor of large and small capacity which are driven by set of electromagnetic clutches selectively with driving force from gas engine
- AB - JP11193966 NOVELTY - The device consists of a compressor (1) of large capacity and a compressor (11) of small capacity which are driven selectively by a set of electromagnetic clutches (12,19) with driving force from a gas engine (2). DETAILED DESCRIPTION - The compressors are connected to a condenser (13), an expansion valve (15) and an evaporator (17), through a piping. The driving force of the gas engine is transmitted to the compressor through an output shaft (2a) and electromagnetic clutches.
- USE - For driving compressors without low load running problem.
- ADVANTAGE - Capability of outdoor machine can be adjusted corresponding to capacity variation of chamber inner side. Low load running can be performed without reduction in efficiency, as small capacity compressor is worked with clutch. DESCRIPTION OF DRAWING(S) - The figure shows schematic diagram of gas heat pump device. (1,11) Compressors; (2) Gas engine; (2a) Output shaft; (12,19) Electromagnetic clutches; (13) Condenser; (15) Expansion valve; (17) Evaporator.
- (Dwg.1/7)
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- PA - (TOLG ) TOKYO GAS CO LTD
- DC - Q75
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- TI - GAS HEAT PUMP APPARATUS
- AB - PROBLEM TO BE SOLVED: To provide a gas heat pump apparatus for dealing with a low load operation of an indoor side without lowering an operating efficiency by regulating a capacity of an outdoor unit corresponding to a volume change of the indoor side.
- SOLUTION: The gas heat pump apparatus comprises a large volume compressor 1, a small volume compressor 11, a condenser 13, an expansion valve 15, an evaporator 17 and a piping for connecting them. A driving force of a gas engine 2 is transmitted to the compressors 1, 11 via an output shaft 2a, electromagnetic clutches 12, 19 and the like. The clutches 12, 19 decide whether a driving force from the engine 2 is transmitted to the compressors 1, 11 or not. Since the capacities of the two compressors 1, 11 are set to large and small capacities and the compressors 1, 11 can be selectively operated by the clutches 12, 19, it can deal with a low load operation of the indoor side.
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